Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY
PATENT APPLICATION
TRANSMITTAL

+

Attorney Docket No.		146712001800			
First Inventor		Chung-Hee CHANG	S		
Title	MAGNETIC A	NISOTROPY OF SOFT-UNDERLAYER INDUCED BY N FIELD			
			- E		

Conly for new nonprovisional applications under 37 CFR 1.53(b))

CERTIFICATE OF HAND DELIVERY

hereby certify that this correspondence is being hand filed with the United States Patent and Trademark Office in Washington, D.C. on June

APPLICATION ELEMENTS See MFEP challer 600 cancerning utility patient application contents. ADDRESS TO: Remaind a form (application contents) 1. E Fe Transmittal Form (application contents) Application or organization and devices for the processing (Submit an organization and devices for the processing) Application claims small entity status. See 37 CFR 1.72. Total Pages 2e 1	TV. Dorviggi									
Column an organization and an organization for the processing Column and an organization and an organization and an organization Column and an organization		ADDRESS TO: Box Patent Application								
- Brief Summary of the Invention - Brief Description of the Drawings (if field) - Detailed Description - Claim(s) - Abstract of the Disclosure - Abstract of Disclosure - Abstract - Abstrac	1. Fee Transmittal Form (e.g. PTO/SB/17) (Submit an original, and a duplicate for fee processing) 2. Applicant claims small entity status. See 37 CFR 1.27. 3. Specification (preferred arrangement set forth below) - Descriptive title of the Invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a 7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) 8. Computer Readable Form (CRF) Specification Sequence Listing on. i. CD-ROM or CD-R (2 copies); or ii. paper									
- Seriel Bescription of the Drawings (effect) - Claim(s) - Claim(s) - Adstract of the Disclosure - Claim(s) - Copy from a prior application (37 CFR 1.83(d)) - Claim(s) - Copy from a prior application (37 CFR 1.83(d)) - Claim(s) - Copy from a prior application (37 CFR 1.83(d)) - Copy from a prior application (37 CFR 1.83(d)) - Copy from a prior application (37 CFR 1.83(d)) - Copy from a prior application (37 CFR 1.83(d)) - Copy from a prior application (37 CFR 1.83(d)) - Copy from a prior application (37 CFR 1.83(d)) - Copy from a prior application (37 CFR 1.83(d)) - Copy from a prior application (37 CFR 1.83(d)) - Copy from a prior application (37 CFR 1.83(d)) - Copy from a prior application (37 CFR 1.83(d)) - Copy from application and a series (37 CFR 1.83(d)) - Copy from application and a series (37 CFR 1.83(d)) - Copy from application and a series (37 CFR 1.83(d)) - Copy from application and a series (37 CFR 1.83(d)) - Copy from application and a series (37 CFR 1.83(d)) - Copy from application and a series (37 CFR 1.83(d)) - Copy from application and a series (37 CFR 1.83(d)) - Copy from application and a series (37 CFR 1.83(d)) - Copy from application and a series (37 CFR 1.83(d)) - Copy from application and a series (37 CFR 1.83(d)) - Copy from application and a series (37 CFR 1.83(d)) - Copy from application and a series (37 CFR 1.83(d)) - Copy from application and a series (37 CFR 1.83(d)) - Copy from application and a series (38 CFR 1.83(d)) - Copy from application and a series (38 CFR 1.83(d)) - Copy from application and a series (38 CFR 1.83(d)) - Copy from application and a series (38 CFR 1.83(d)) - Copy fro	- Brief Summary of the Invention	ACCOMPANYING APPLICATION PARTS								
5. Oath or Declaration Total Pages 2 12	- Detailed Description - Claim(s)	9. X Assignment Papers (cover sheet & document(s)) 10 37 CFR 3.73(b) Statement Papers of Attorney								
Address A. Wally executed (original or copy) a. Wally executed (original or copy) b. Copy from a prior application (37 CFR 1.63(d)) procromitation below and in a preliminary amendment, or in an Application Data Sheet. See 37 CFR 1.76: Continuation Divisional Divisional Continuation or divisional application and is hereby incorporated by reference. This incorporated by reference. This incorporated men base here shelded application parts. 12. Wall information Disclosure Statement (IDS)/FTC-1448 Refused and (RPEP 503) Should be applicated plantagold plantagold. Proceedings of the prior application (RPEP 503) Should be applicated plantagold plantagold. Proceedings in the prior application ander 35 U. S. C. 122(b)(2)(B)(i). Applicant must attach from PTO/SB/35 or its equivalent. 15. Certified Copy of Priority Document(s) (if thorage plantagold plantagold certification under 35 U. S. C. 122(b)(2)(B)(i). Applicant must attach from PTO/SB/35 or its equivalent. 16. X Application Data Sheet. See 37 CFR 1.76: Continuation Divisional Divisional Continuation-in-part (CIP) of prior application No: * For continuation of moreation: Exampler* Group / Art Unit. * For CONTINUATION OR DIVISIONAL APPS sorph: The entire disclosure of the prior application. From which an eath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. This incorporation gan only be relied upon when a portion has been address below 19. CORRESPONDENCE ADDRESS 19. Correspondence address below	4. 🔀 Drawing(s) (35 USC 113) [Total Sheets 7]	11. English Translation document (if applicable)								
b. Copy from a prior application (37 CFR 1.63(d)) Copy from a prior application (37 CFR 1.63(d)) Conditional conditions and with Box 18 completed of the condition of the co										
Should be specifically itemzed) Cortinuation Divisional Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b) 16.	a. Newly executed (original or copy)	13. Preliminary Amendment								
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b) 16. Application Data Sheet. See 37 CFR 1.76 17. Other 18. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation Divisional Continuation-in-part (CIP) of prior application No: * For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an eath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. This incorporation can only be relied upon when a portion has been inadvertedly omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label (Insert Customer No or Attach bar code label here) Name Address Orly State Zip Code Telephone Raj S. Davép Ph.D., J.D. Registration No. (Attorney/Agent) 42,465	b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed)									
8. Application Data Sheet. See 37 CFR 1.76 17. Other 18. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application Not.* For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. This incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application and is hereby incorporated by reference. This incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application and is hereby incorporated by reference. This incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS 19. CORRESPONDENCE ADDRESS (Insert Customer No. or Attach bar code label here) Name Address City State Telephone Fax Name (Print/Type) Raj S. Davén/Ph.D., J.D. Registration No. (Attorney/Agent) 42,465	Signed statement attached deleting inventor(s) named in the									
Surface CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No: * Prior application information: Examiner * Group / Art Unit. * For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. This incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. Substance Substan	prior application, see of of N. Hoo(o)(2) and Hoo(o)									
under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) Of prior application No: * Group / Art Unit. * For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. This incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS 19. CORRESPONDENCE ADDRESS 19. Correspondence address below or Correspondence address below (Insert Customer No or Attach bar code label here) Name Address City Sale S	6. 🗷 Application Data Sheet. See 37 CFR 1.76	17. Other								
Prior application information: Examiner* Group / Art Unit.* For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. This incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS		isite information below and in a preliminary amendment, or in an Application Data Sheet								
For CONTINUATION OR BIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. This incorporation gan only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS	☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)	of prior application No: *								
disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. This incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 19. CORRESPONDENCE ADDRESS 19. Correspondence address below 25227 PATENT TRADEMARK OFFICE (Insert Customer No or Attach bar code label here) Name Address City State Zp Code Country Telephone Fax Name (Print/Type) Raj S. Davén Ph.D., J.D. Registration No. (Attorney/Agent) 42,465	***************************************	•								
Customer Number or Bar Code Label 25227 PATENT TRADEMARK OFFICE (Insert Customer No or Attach bar code label here) Name Address City State Telephone Raj S. Davén Ph.D., J.D. Registration No. (Attorney/Agent) Accountry Ray S. Davén Ph.D., J.D. Registration No. (Attorney/Agent) Accountry Country Registration No. (Attorney/Agent) Accountry Accountry Ray S. Davén Ph.D., J.D. Registration No. (Attorney/Agent) Accountry Accountry Accountry Registration No. (Attorney/Agent) Accountry	disclosure of the accompanying continuation or divisional application and is hereby incorporate	rom which an oath or declaration is supplied under Box 5b, is considered a part of the id by reference. This incorporation <u>can only</u> be relied upon when a portion has been								
Address City Country Raj S. Davén Ph.D., J.D. Registration No. (Attorney/Agent) Ray 5. Davén Ph.D., J.D. Registration No. (Attorney/Agent) Ray 5. Davén Ph.D., J.D. Registration No. (Attorney/Agent) Ray 5. Davén Ph.D., J.D.	19. CORRESPON	DENCE ADDRESS								
Name State Zip Code City Telephone Fax Name (Print/Type) Raj S. Davén Ph.D., J.D. Registration No. (Attorney/Agent) 42,465	Customer Number or Bar Code Label Correspondence address below 25227 PATENT TRADEMARK OFFICE									
Address State Zip Code Country Telephone Fax Name (Print/Type) Raj S. Davén Ph.D., J.D. Registration No. (Attorney/Agent) 42,465										
City State Zip Code Country Telephone Fax Name (Print/Type) Raj S. Davén Ph.D., J.D. Registration No. (Attorney/Agent) 42,465	Name									
Country Telephone Fax Name (Print/Type) Raj S. Davén Ph.D., J.D. Registration No. (Attorney/Agent) 42,465										
Name (Print/Type) Raj S. Davén Ph.D., J.D. Registration No. (Attorney/Agent) 42,465										
And the type		<u> </u>								
Signature Date June 5, 2001	// 400									
	Signature	Date Julie 5, 2001								

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Oracle the responsibility accounts and recognitive persons and responsibility and respons				Complete if Known			
FEE TRANSMITTAL				Application NEW			
FOR FY 2001			Filing Date		June 5, 2001		
			First Named Inventor		Chung-Hee CHANG	į	
			Examiner Name		not yet assigned		
Patent fees are subject to annual revision.			Group Art Unit		not yet assigned		
TOTAL AMOUNT OF PAYMENT	(\$)830.	.00	Attorney Docket No.		146712001800		
METHOD OF PAYMENT			FE	E CALC	ULATION (continued)		
The Commissioner is hereby authorized to charge indicated	3. ADDI	TIONAI	L FEES				
fees and credit any overpayments to: Deposit	Large	Entity	/ Small	Entity			
Account Number 03-1952	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid	
Deposit Account Morrison & Foerster LLP							
Name	105	130	205	65	Surcharge - late filing fee or oath		
Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17	127	50	227	25	Surcharge - late provisional filing fee or cover sheet		
Applicant claims small entity status. See 37 CFR 1.27	139	130	139	130	Non-English specification		
2. X Payment Enclosed:	147	2,520	147	2,520	For filing a request for ex parte reexamination		
— ☑ Check □ Credit Card □ Money Order □ Other	112	920*	112	920*	Requesting publication of SIR prior to Examiner action		
FEE CALCULATION	113	1,840	* 113	1,840*	Requesting publication of SIR after Examiner action		
1. BASIC FILING FEE	115	110	215	55	Extension for reply within first month		
	116	390	216	195	Extension for reply within second month		
Large Entity Small Entity Fee Fee Fee Fee Description	117	890	217	445	Extension for reply within third month		
Code (\$) Code (\$) Fee Paid	118	1,390	218	695	Extension for reply within fourth		
101 710 201 355 Utility filing fee 710	128	1,890	228	945	month Extension for reply within fifth month		
106 320 206 160 Design filing fee	119	310	219	155	Notice of Appeal		
107 490 207 245 Plant filing fee	120	310	220	155	Filing a brief in support of an appeal		
108 710 208 355 Reissue filing fee	121	270	221	135	Request for oral hearing Petition to institute a public use		
114 150 214 75 Provisional filing fee	138	1,510	138	1,510	proceeding		
SUBTOTAL (1) (\$)710.00	140 141	110 1,240	240 241	55 620	Petition to revive - unavoidable Petition to revive - unintentional		
300101AL (1) (4)110.00							
2. EXTRA CLAIM FEES Extra Fee from Fee Poid	142	1,240	242	620	Utility issue fee (or reissue)		
Claims below Fee Paid	143	440	243	220	Design issue fee	·	
Total Claims 20 - 20** = 0 x 18 = \$0 Independent 4 2** = 4 2 20 = 500	144	600	244	300	Plant issue fee Petitions of the Commissioner		
Claims 4 -3** = 1 x 80 = \$80	122	130	122	130	Petitions or the Commissioner Petitions related to provisional	<u> </u>	
Multiple Dependent * x 270 = \$0	123	50	123	50	applications		
	126	180	126	180	Submission of Information Disclosure Stmt		
Large Entrty Small Entrty Fee Fee Fee Fee Description Code (\$) Code (\$)	581	40	581	40	Recording each patent assignment per properties (times number of properties)	40	
103 18 203 9 Claims in excess of 20	146	710	246	355	Filing a submission after final rejection (37 CFR § 1.129(a))		
102 80 202 40 Independent claims in excess of 3	149	710	249	355	For each additional invention to be examined (37 CFR § 1.129(b))		
104 270 204 135 Multiple dependent claims, if not paid	179	710	279	355	Request for Continued Examination (RCE)		
109 80 209 40 **Reissue independent claims over original patent	169	900	169	900	Request for expedited examination of a design application		
ongmai patent *Reissue claims in excess of 20 and					or a acorgin application		
Over original patent	Other fee	(specify	·)	****			
SUBTOTAL (2) (\$)80.00	*Dad	l by Per	o Eilioa Ess D	aid	SUBTOTAL (3) (\$	40.00	
** or number previously paid, if greater; For reissues, see above.	by Basi	ıc Filing Fee P	alu	305 (OTAL (3) (3			
SUBMITTED BY Complete (if applicable)							

Registration No. Telephone 202-887-8798 42,465 Name (Print/Type) Raj S. Davé, Ph.D., J.D (Attorney/Agent) June 5, 2001

Burden Hour Statement. This form is estimated to the 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231